TPL VISION
Active LED solutions

# BACKLIGHT BLBAR FOOD
# USER'S GUIDE

## PREAMBLE

This notice includes all the advice and warnings that enables a correct set up and a safe use of the product. TPL Vision can not be responsible for the bad use of the notice. If so, TPL Vision cancels the guarantee's effects.

## UNPACKING

Products are packed in our factory, using suitable materials for a safe transport through the usual means of transportation, in France and abroad. However, a damaged package must be reported to the carrier on delivery. Hand-written reservations must be indicated on the delivery order. Moreover, please send a letter or an email to TPL Vision as soon as possible (up to 24 hours after the delivery). If the transportation damage has not been stipulated on the delivery order and reported to TPL Vision in time, the package will not be taken back nor exchanged. To open the package, do not use any cutting blade so as to avoid damages on the product. Please use the delivered accessories, if needed (do not use any other products or equivalents to replace the delivered accessories).

## RISK CLASS

The EN-62471 norm about lighting fluxes enables the classification of led lightings in 4 distinct groups, according to their hazardousness degree. Please find below an indicative table, recapitulating the classes of risk for our standard products.

| Colour | Class | Risk |
|---|---|---|
| White WHI, Green 525 nm, Red 630 nm | 0 | none |
| UV 405 nm, Blue 470 nm, IR 850 nm | 1 | low |
| UV 365 nm | 2 | moderate |
| UV 385 nm | 3 | high |

In all cases, TPL Vision recommends the use of **the protection glasses** that are listed in its catalog.

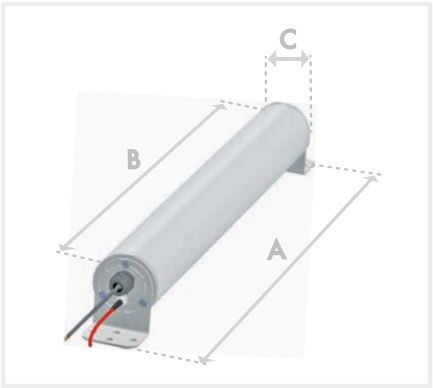
For more information about photo-biological risks, do not hesitate to contact us.

TPL Vision can provide calculation notes about **the nominal distance of eye risks** (security distance).

**BEWARE to the infrared light**, invisible to the eyes.
To know if the light is on, please refer to the LED indicators.

## DIMENSIONS

| | Total length (mm) | Bar length (mm) | Diameter (mm) |
|---|---|---|---|
| | A | B | C |
| BLBAR5 | 306 | 153 | 80 |
| BLBAR10 | 431 | 278 | 80 |
| BLBAR15 | 556 | 403 | 80 |
| BLBAR20 | 681 | 528 | 80 |
| BLBAR25 | 806 | 653 | 80 |
| BLBAR30 | 931 | 778 | 80 |
| BLBAR35 | 1056 | 903 | 80 |
| BLBAR40 | 1181 | 1028 | 80 |
| BLBAR45 | 1306 | 1153 | 80 |
| BLBAR50 | 1431 | 1278 | 80 |




## RECOMMENDATIONS

### 1 - Temperature conditioning

before the set-up, please store the bar during 24 hours in its package, at the operating temperature (the packaging will slow down the crossing time from 20°C to 5°C – and the air vent will balance both the pressures and the humidity).

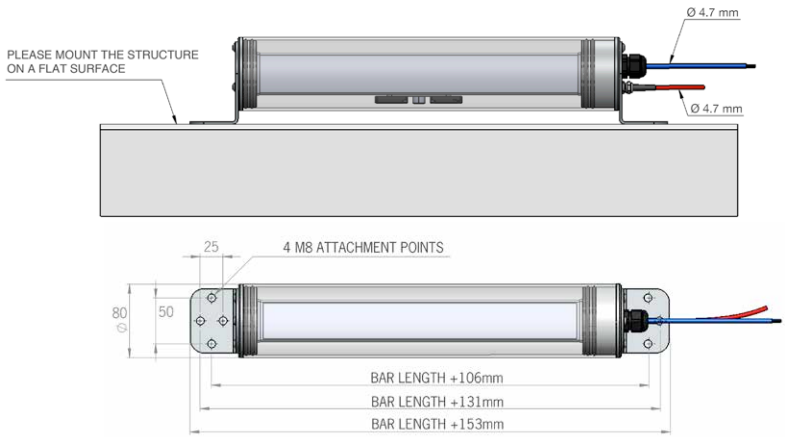
### 2 - Setting up

as soon as the product is brought out of its packaging, please set up, immediately connect the fans and turn them on.

### 3 - Use

- **never** turn off the fans,
- unless it is used in continuous mode, do not put the bar in a place where the temperature may vary rapidly (close to the door of a refrigerator at -20°C),
- do not wash the product with warm water (max 80°C) more than 1 minute, to avoid any condensation phenomenon,
- if the product is working in continuous mode, do not turn it off during the cleaning,
- if the product is working in strobe mode, please respect the following steps during the cleaning with warm water:
  - switch the bar on in continuous mode (at least one color for RGB bars) during 30 minutes,
  - clean the product while it is turned on,
  - turn it off, but keep the fans on during 1 hour,
  - you can now use the bar in strobe mode again.

## FIXING




**BEWARE:** if you don't want to use the brackets supplied with the product on a flat surface, here are our recommendations.

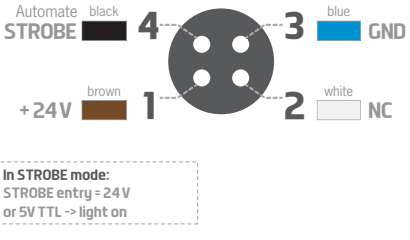
**1 -** You can use clamps. Please place them on the o-ring of the tube. Do not press it, to avoid any pressure or fissure.

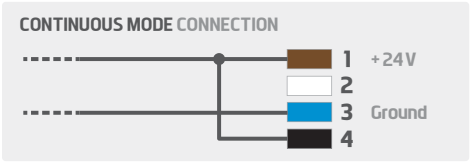
**2 -** You can also mount the tube with your own brackets. Then, you have to insert rubber blocks, to avoid any pressure on the tube.

In all cases, if the mounting recommendations are not followed, TPL Vision can decide to cancel the warranty in case of damage.

## CONNECTION OF THE LIGHT

### Cable 4 wires

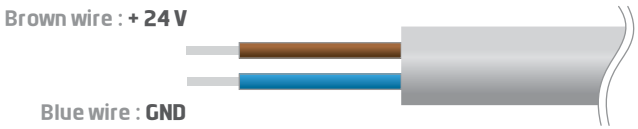





## CONNECTION OF THE TUBE

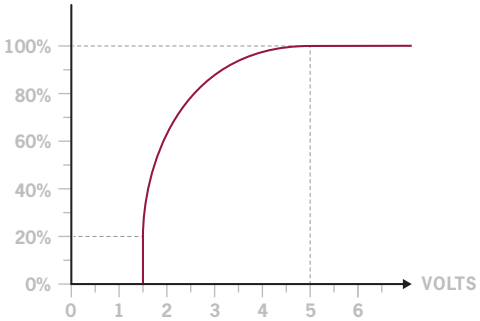
To prevent any steam appearance inside the product, you need to power the ventilation system. The fan has to work 24 hours a day.

### Ventilation connection



## STROBE MODE

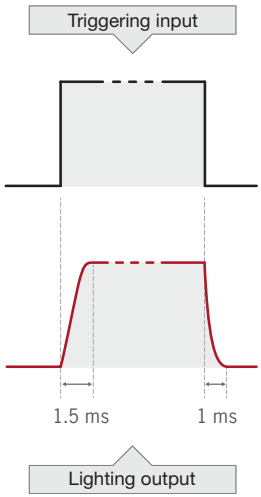
### DIMMING




**Potential dimming between 1.5 & 5 Volts.**

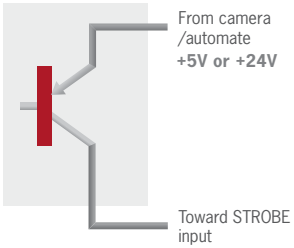
Above 5 Volts, the product reaches 100% of its lighting power.

### TIMETABLE

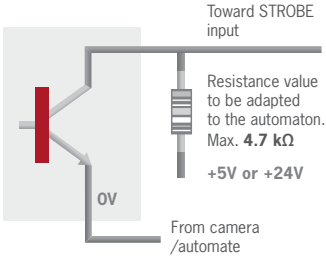



**Power supply :** 24V +/-10%
**Strobe input :** 24V or 5V TTL

### PNP-LIKE AUTOMATON OUTPUT




### NPN-LIKE AUTOMATON OUTPUT



## USER SECURITY

**Do respect the power supply voltages and the connection terminals.**
**Do not modify or dismantle all or part of the product.**
**Do not connect or clean when power is on.**
**Do not watch the lighting source directly, and follow the advice below :**

- If the workstation enables it, interpose a filter that will stop the lighting radiation under fixed or adjustable frame between the source and the operator.
- When these measures cannot be implemented, supply the operators with glasses (class 4) available for sale at TPL Vision, or with a dedicated protective mask, that will stop the lighting radiation.
- Forbid or limit the direct access to the lighting source (exposure into the radiation axis).
- Establish a security perimeter so as to prevent the operators from approaching the lighting source beyond the recommendations of the manufacturer, as for eye irritation is concerned.
- In any case, ensure that the chosen means properly reduce the exposition quantities (features of screens or glasses to be chosen, according to the wavelengths that the operators are exposed to).

## TUBE CLEANING

List of compliant detergents:

**CHEMICAL PRODUCTS, SOLVENTS, ETC.**

**A - General**

- Arsenic acid
- Butyric acid, up to 5%
- Citric acid, up to 20%
- Hydrochloric acid
- Hydrofluoric acid, up to 20%
- Formic acid, up to 2%
- Lactic acid, up to 20%
- Nitric acid, up to 40%
- Oxalic acid
- Phosphoric acid, up to 50%
- Picric acid, 1% in water
- Acid for accumulators
- Sulfurous acid, up to 5%
- Sulfuric acid, up to 30%
- Stearic acide
- Calculous acid, up to 50%
- Uric acid, up to 20%
- Alum
- Arsenic
- Benzene
- Potassium dichromate
- Sodium bisulfite
- Sodium carbonate
- Potassium carbonate
- Sodium chlorate
- Aluminium chloride
- Calcium chloride
- Stannous tin chloride
- Magnesium chloride
- Potassium chloride
- Sodium chloride
- Sulfuryl chloride
- Ferrous chloride
- Ferric chloride
- Potassium cyanide
- Cyclohexane
- Diethylene glycol
- Oxygenated water, up to 30%
- Soapy water
- Turpentine spirit
- Petroleum ether
- Glycerin
- Glycol
- Heptane
- Hexane
- Calcium hydrochlorite
- Sodium hydrochlorite
- Iodine, metallic
- Lime milk
- Potash
- Lye at 30%
- Mercury
- Monobromonaphtalene
- Silver nitrate
- Potassium nitrate
- Aluminium oxalate
- Perchlorethylene
- Potassium permanganate
- Petroleum
- Propylene
- Soda

- Sulfur
- Aluminium sulphate
- Ammonium sulphate
- Copper sulphate
- Magnesium sulphate
- Manganese sulphate
- Nickel sulphate
- Sodium sulphate
- Solid zinc sulphate
- Watery zinc sulphate
- Sodium sulphide
- Triethylamine
- White Spirit
- Green vitriol

**B - Brand**

- CLOPHEN® T55, A 60
- PALATINOL® K
- SANGAJOL®
- TERAPIN®

## DISINFECTANT PRODUCTS

**A - General**

- Lime chloride
- Oxygenated water, up to 40%
- Lugol's solution
- Sublimation

**B - Brand**

- BAKTOLAN®, up to 5%
- CHINOSOL®, up to 1%
- CHLORAMIN®, solution
- ELMOCID® GAMMA, up to 2%
- MEFAROL®, up to 1%
- MERCKOJOD®, up to 1%
- MERFEN®
- PERHYDROL®
- PERODIN®
- SAGROTAN®, up to 2%
- ZEPHIROL®, up to 5%

## CLEANING PRODUCT

**B - General**

- Acids, see CHEMICAL PRODUCTS
- Alcohol, up to 30%
- Benzene
- Bleach
- Soapy water
- Turpentine spirit
- Petroleum ether
- Detergents, see CHEMICAL PRODUCTS
- Petroleum
- Soda
- Ammoniacal solution
- White Spirit

**b) Brand**

- AJAX®
- BFK-nettoyant®
- BÖTTCHERIN®
- BURMAT®
- BURNUS®
- CILLIT-GRÜN®
- DOR®
- DOSYL
- DOSYLAN®
- FAKO® - Polishing paste
- FAKO® - Polishing product
- FEWA®
- FRAPPIN®
- FÜLLBOX
- KUR® - antistatic and cleaning
- LAVAPLEX®
- NULL-NULL®
- PERSIL®
- PLEXIKLAR®
- PRIL®
- REI®
- SEIFIX®
- SPÜLI®
- WC-00®

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Features and presentations liable to changes without notice.

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